

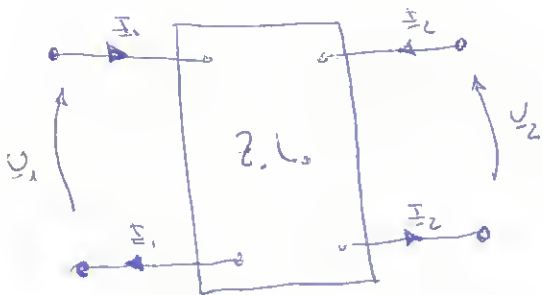
Dinner table

Ayrıca pratiklere geçmeden önce jeneratörlerin eşin derslerine her, baktıra kelenenle bi irkivitekin baktıra et, hurrenlele wile-ir-irak beketle bektıra : $Z_{12} = Z_{21}$ etle $Z_{11} = Z_{22}$. Transmitta parametreler beketle deterninlektle d.tugu kelenle.

Atebikoa bi atzagu ezitean, bakozikulaboreen elkarbesta irakuntzietan, transimite
irakuntza parametrok sinergetikoki aldagaiten erabera eragortzen, hurrengo aldagaitzen arabera:

$$\underline{u}_1 = \underline{A} \cdot \underline{u}_2 - \underline{B} \cdot \underline{I}_2$$

$$\underline{I}_1 = \underline{C} \underline{U}_2 - \underline{D} \cdot \underline{I}_2$$



Notwendige Funktionen (Q Zahl (K):

$$t_{10} = \frac{y_1}{I_1} \text{ con } I_1 = 0 \text{ e } t_{10} = \frac{\Delta}{C}$$

Fickkulturbeurteilungswerte (Q-faktor):

$$t_{acc} = \frac{U_1}{I_1} \text{ con } U_2 = 0 \text{ e } t_{in} = \underline{\underline{\frac{3}{2}}}$$

Агрегировање параметара β и ϵ параметрима логистичког

$$\underline{B} = \underline{t_{cc}} \underline{A} \quad \underline{e} = \frac{\underline{A}}{\underline{t_{cb}}}$$

$$e = \frac{\Delta}{t_{10}}$$

\underline{A} -ren baten inputak ezbera ondorengo behaketan, instrumentuen inakurketak oinarritur, \underline{B} , \underline{C} eta \underline{D} parametroak lortzeko, hurren funtzioak egiten besterik.

$$\underline{\Delta Z} = \begin{vmatrix} z_{11} & z_{12} \\ z_{21} & z_{22} \end{vmatrix}, \text{ elkarrekikoak antzekatuta. } z_{12} = z_{21}$$

$$\begin{vmatrix} \underline{A} & \underline{B} \\ \underline{C} & \underline{D} \end{vmatrix} = \begin{vmatrix} \underline{A} = \frac{z_{11}}{z_{21}} & \underline{B} = \frac{\underline{\Delta Z}}{z_{21}} \\ \underline{C} = \frac{1}{z_{21}} & \underline{D} = \frac{z_{22}}{z_{21}} \end{vmatrix} = \frac{z_{11} \cdot z_{22}}{z_{21}^2} - \frac{\underline{\Delta Z}}{z_{21}^2} = 1 \quad (z_{12} = z_{21} \text{ elkarrekikoak antzekatuta})$$

$$\underline{A} \cdot \underline{D} - \underline{B} \cdot \underline{C} = 1$$

$$\underline{C} = \frac{\underline{A}}{z_{10}} \quad z_{10} = \frac{\underline{B}}{\underline{D}} = \frac{\underline{B}}{\underline{A}} \quad \underline{A} \underline{D} - \underline{C} \underline{B} = 1 \quad \underline{A}^2 - \underline{C} \underline{B} = 1$$

$$\underline{A}^2 - z_{10} \underline{C} = \underline{A} \cdot \frac{\underline{A}}{z_{10}} = 1 \quad \underline{A}^2 \left(1 - \frac{z_{10} \underline{C}}{z_{10}} \right) = 1 \quad \underline{A} = \sqrt{\frac{1}{1 - \frac{z_{10} \underline{C}}{z_{10}}}} = \sqrt{\frac{z_{10}}{z_{10} - z_{10} \underline{C}}}$$

\underline{A} -ren baten z_{10} eta z_{10} parametroen ezberaketa dela ikusi dugu. Haren baliokak eragutita, denak lortu ditakegu. Instrumentuen inakurketak ezker berragutuz lortu berri:

$$\underline{Z} = Z \varphi = R + jX \quad z_{10} = \frac{V}{A} \quad \varphi = \arccos \frac{W}{V A}$$

$$R_0 = \frac{W}{A^2} \quad X_0 = \sqrt{\left(\frac{V}{A} \right)^2 - \left(\frac{W}{A^2} \right)^2}$$

Praktikaren gaurak

Elkarrekikoak eta sinetrikotasunak den aldetik baten transmisio parametroak determinatu eta 2 parametroak kalkulatu behar dira.

Beharretako materialak

Ampere metro bat: $\frac{5A}{5A} \sim 1 \rightarrow 2$

Volt metro bat: $\frac{300V}{300V} \sim 1 \rightarrow 2$

Watt metro bat: $\frac{300V \cdot 5A}{15A} \sim 2$

Ertsegurako atebiko sinetokuen:

Etegaratza

Lortutako emaitzak

Ampere metroen eskala ematen baldin: 5 A

Ampere metroen korante balio maximoa: 5 A

Volt metroen eskala ematen baldin: 300 V

Volt metroen tentsio balio maximoa: 300 V

Watt metroen eskala ematen baldin: 15 A

Watt metroen korante balio maximoa: 5 A

Watt metroen tentsio balio maximoa: 300 V

$$K_A = \frac{5A}{5A} = 1 \text{ A/erdi}$$

$$K_V = \frac{300V}{300V} = 1 \text{ V/erdi}$$

$$K_W = \frac{300V \cdot 5A}{15A} = 20 \text{ W/erdi}$$

Sukatutako	A			V			W			Z
	Irak.	K_A	A	Irak.	K_V	V	Irak.	K_W	W	
1	3	1	3	210	1	210	15	20	300	73'3
2	38	1	38	210	1	210	42'5	20	850	57'847

$$\underline{A} = \underline{D} = 2'1794$$

$$\underline{E}_{11} = \underline{E}_{22} = 73'3$$

$$\underline{B} = 126'1786$$

$$\underline{E}_{12} = \underline{E}_{21} = 35'6476$$

$$\underline{C} = 0'0297$$